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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/743,861	12/22/2003	Bryan D. Haynes	18669	9092	
23556 73	590 03/21/2005		EXAMINER		
KIMBERLY- 401 NORTH L	CLARK WORLDW	RAO, G NAGESH			
NEENAH, WI			ART UNIT	PAPER NUMBER	
			1722		
		DATE MAILED: 02010005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/743,861	HAYNES ET AL.				
Office Action Summary	Examiner	Art Unit				
	G. Nagesh Rao	1722				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>_</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
,	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.	☑ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ate	O 152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PT	U-102)			

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, and 16 rejected under 35
 U.S.C. 102(b) as being anticipated by Bentley (US Patent No. 6,565,344 B2).

Please note that the die-tip block does not necessarily have to be extruding meltblown fibers, just capable, since the material worked upon is viewed as just a recitation of intended use.

Bentley 344 teaches an apparatus for producing multi-component liquid filaments which includes a die tip block for extrusion of meltblown materials comprised of the following as seen in Figures 1-6 and anticipated by claims 1 and 5, where there being a top surface with two separate inlets (14 and 16) for materials to flow through into conduits (52 and 54) which flow into the interior of a die tip block whereby becoming a first plurality of outlets and second plurality of outlets (26a and 26b) anticipating plurality of orifices.

The plurality of outlets converge at an intersecting angle (an angle as seen in figure 3a as being an acute angle) trough (56) to a discharge outlet die tip (26).

Along the process of material flow the diameter of the passageways get smaller towards the end into the discharge outlet as can be seen in figure 3a Application/Control Number: 10/743,861 Page 3

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(anticipates the idea of the capillary having a smaller diameter than the first diameter as claimed by applicant).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claims 3-4, and 17-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Bentley (US Patent No. 6,565,344 B2) in view of Harding (US Patent No. 3,825,380).

From the aforementioned Bentley 344 teaches a die tip block that anticipates claimed invention.

However Bentley 344 lacks the specific teachings of size ranges for the die openings.

In an apparatus for meltblowing, Harding 380 teaches a similar die-tip for extruding meltblown fibers in a linear rather than angular fashion. Harding 380 discusses various die-opening sizes (Column 5 Lines 5-10 and Lines 62-67) from .002 inches (.0508 millimeters) to .022 inches (.60 millimeters), which falls within range of applicant's claimed die opening sizes.

It would be obvious one skilled in the art to modify Bentley 344 with the teachings of Harding 380 given the related art and the desire to extrude smaller and finer materials from the die-head for higher quality of material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Utech can be reached on (571) 272-1137. The

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fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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